



June 13, 2016

Meagan E. Ormand Golder Associates Inc. 2108 W. Laburnum Ave. Suite 200 Richmond, VA 23227

RE: Project: Bremo Monthly Process Pace Project No.: 92300999

Dear Meagan Ormand:

Enclosed are the analytical results for sample(s) received by the laboratory on June 10, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

Some analyses have been subcontracted outside of the Pace Network. The subcontracted laboratory report has been attached.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Nicole Gasiorowski

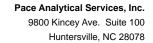
Micolo Yasiorovske

nicole.gasiorowski@pacelabs.com

Project Manager

Enclosures





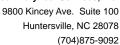
(704)875-9092



June 13, 2016 Page 2

cc: Ron DiFrancesco, Golder Associates Inc. Martha Smith, Golder Associates Inc. Mike Williams, Golder Associates Inc







CERTIFICATIONS

Project: Bremo Monthly Process

Pace Project No.: 92300999

Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174 Alabama Certification #: 41320

Connecticut Certification #: 41320

Delaware Certification: FL NELAC Reciprocity

Florida Certification #: E83079 Georgia Certification #: 955

Guam Certification: FL NELAC Reciprocity Hawaii Certification: FL NELAC Reciprocity

Illinois Certification #: 200068

Indiana Certification: FL NELAC Reciprocity

Kansas Certification #: E-10383

Louisiana Certification #: FL NELAC Reciprocity Louisiana Environmental Certificate #: 05007

Maryland Certification: #346 Michigan Certification #: 9911

Mississippi Certification: FL NELAC Reciprocity

Missouri Certification #: 236 Montana Certification #: Cert 0074 Nebraska Certification: NE-OS-28-14 Nevada Certification: FL NELAC Reciprocity

New York Certification #: 11608

North Carolina Environmental Certificate #: 667

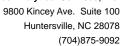
North Carolina Certification #: 12710
North Dakota Certification #: R-216
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity

US Virgin Islands Certification: FL NELAC Reciprocity

Virginia Environmental Certification #: 460165
Wyoming Certification: FL NELAC Reciprocity

West Virginia Certification #: 9962C Wisconsin Certification #: 399079670

Wyoming (EPA Region 8): FL NELAC Reciprocity





SAMPLE ANALYTE COUNT

Project: Bremo Monthly Process

Pace Project No.: 92300999

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory	
92300999001	T1-160610-1138-S3	EPA 200.7	CKJ	8	PASI-O	-



Huntersville, NC 28078 (704)875-9092

PROJECT NARRATIVE

Project: Bremo Monthly Process

Pace Project No.: 92300999

Method: EPA 200.7
Description: 200.7 MET ICP

Client: Golder_Dominion_Bremo

Date: June 13, 2016

General Information:

1 sample was analyzed for EPA 200.7. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 200.7 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

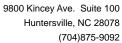
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.





ANALYTICAL RESULTS

Project: Bremo Monthly Process

Pace Project No.: 92300999

Date: 06/13/2016 02:06 PM

Sample: T1-160610-1138-S3	Lab ID: 9230	00999001	Collected: 06/10/1	6 11:38	8 Received: 06	6/10/16 14:10 N	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP	Analytical Meth	od: EPA 20	0.7 Preparation Met	hod: El	PA 200.7			
Aluminum	263	ug/L	100	1	06/11/16 12:55	06/11/16 16:38	7429-90-5	
Barium	207	ug/L	10.0	1	06/11/16 12:55	06/11/16 16:38	7440-39-3	
Beryllium	ND	ug/L	1.0	1	06/11/16 12:55	06/11/16 16:38	7440-41-7	
Boron	584	ug/L	50.0	1	06/11/16 12:55	06/11/16 16:38	7440-42-8	
Cobalt	ND	ug/L	10.0	1	06/11/16 12:55	06/11/16 16:38	7440-48-4	
Iron	ND	ug/L	250	1	06/11/16 12:55	06/11/16 16:38	7439-89-6	
Molybdenum	99.9	ug/L	10.0	1	06/11/16 12:55	06/11/16 16:38	7439-98-7	
Vanadium	27.1	ug/L	10.0	1	06/11/16 12:55	06/11/16 16:38	7440-62-2	



QUALITY CONTROL DATA

Project: Bremo Monthly Process

Pace Project No.: 92300999

Date: 06/13/2016 02:06 PM

QC Batch: MPRP/30997 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 MET

Associated Lab Samples: 92300999001

METHOD BLANK: 1603826 Matrix: Water

Associated Lab Samples: 92300999001

		Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	100	06/11/16 16:30	
Barium	ug/L	ND	10.0	06/11/16 16:30	
Beryllium	ug/L	ND	1.0	06/11/16 16:30	
Boron	ug/L	ND	50.0	06/11/16 16:30	
Cobalt	ug/L	ND	10.0	06/11/16 16:30	
Iron	ug/L	ND	250	06/11/16 16:30	
Molybdenum	ug/L	ND	10.0	06/11/16 16:30	
Vanadium	ug/L	ND	10.0	06/11/16 16:30	

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
	-					
Aluminum	ug/L	5000	4700	94	85-115	
Barium	ug/L	500	501	100	85-115	
Beryllium	ug/L	50	47.1	94	85-115	
Boron	ug/L	2500	2430	97	85-115	
Cobalt	ug/L	500	499	100	85-115	
Iron	ug/L	2000	1770	88	85-115	
Molybdenum	ug/L	500	485	97	85-115	
Vanadium	ug/L	500	486	97	85-115	

MATRIX SPIKE & MATRIX SPI	KE DUPLICAT	E: 16038	28		1603829						
			MS	MSD							
	923	300999001	Spike	Spike	MS	MSD	MS	MSD	% Rec		
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	Qual
Aluminum	ug/L	263	5000	5000	5040	5090	95	96	70-130	1	
Barium	ug/L	207	500	500	722	731	103	105	70-130	1	
Beryllium	ug/L	ND	50	50	50.1	48.6	100	97	70-130	3	
Boron	ug/L	584	2500	2500	3170	3080	103	100	70-130	3	
Cobalt	ug/L	ND	500	500	506	515	101	103	70-130	2	
Iron	ug/L	ND	2000	2000	1880	1880	91	91	70-130	0	
Molybdenum	ug/L	99.9	500	500	596	608	99	102	70-130	2	
Vanadium	ug/L	27.1	500	500	529	528	100	100	70-130	0	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



QUALIFIERS

Project: Bremo Monthly Process

Pace Project No.: 92300999

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether, Styrene, and Vinyl chloride.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

Date: 06/13/2016 02:06 PM

PASI-O Pace Analytical Services - Ormond Beach





9800 Kincey Ave. Suite 100 Huntersville, NC 28078 (704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Bremo Monthly Process

Pace Project No.: 92300999

Date: 06/13/2016 02:06 PM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92300999001	T1-160610-1138-S3	EPA 200.7	MPRP/30997	EPA 200.7	ICP/18507



Out of hold, incorrect preservative, out of temp, incorrect containers)

Document Name:

Sample Condition Upon Receipt(SCUR)

Document No.: F-MEC-CS-009-Rev.03 Document Revised: May 24, 2016

Page 1 of 2

Issuing Authority: Pace Mechanicsville Quality Office

			Page 2 of 2 for Internal Use ONLY
Sample Condition Upon Client Name:	Golde	<i>Y</i>	Project #: WO#: 92300999
Courier: Fed Ex UPS Commercia I Pace	JUSPS Other:		Client 92300999
Custody Seal Present? Yes No Seal	s Intact?	Yes [□No
Packing Material: Bubble Wrap Bu Thermometer: RMD001 Correction Factor: 0.0°C Cooler Temp Corrected (°C) Temp should be above freezing to 6°C	Type of Ice:	None Wet	Date/Initials Person Examining Contents: 4 - 10 - 14 Other:
USDA Regulated Soil (N/A, water sample) Did samples originate in a quarantine zone within the Uniter Yes No	d States: CA, NY,	or SC (check	including Hawaii and Puerto Rico)? Yes No
			Comments/Discrepancy:
Chain of Custody Present?	Yes 🗆	io N/A	1.
Samples Arrived within Hold Time?	Yes D	lo 🔲 N/A	2.
Short Hold Time Analysis (<72 hr.)?	Yes 🔽	lo DN/A	3.
Rush Turn Around Time Requested?	yes 🗆 N	io 🔲 N/A	4.
Sufficient Volume?	Yes 🗆 N	lo N/A	5.
Correct Containers Used?	☑Yes ☐N	lo DN/A	6.
-Pace Containers Used?	Yes 🗆 N	lo N/A	
Containers Intact?	VYes □N		7.
Samples Field Filtered?	□Yes □N		8. Note if sediment is visible in the dissolved container
Sample Labels Match COC?	Yes N	0000000	9.
-Includes Date/Time/ID/Analysis Matrix:\			
All containers needing acid/base preservation have been		22-15	10. _{HNG pHc2}
checked? All containers needing preservation are found to be in	Yes N	lo N/A	Ha pH<2
compliance with EPA recommendation?	1		H2SO4 pH<2
(HNO ₃ , H ₂ SO ₄ , HCl<2; NaOH >9 Sulfide, NaOH>12 Cyanide)	Yes N	o N/A	NaOH pH→12
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC,LLHg	□Yes □N	o MN/A	Na OH/ZnOAc pt>9
Samples checked for dechlorination?	□Yes □N		11.
Headspace in VOA Vials (>5-6mm)?	□Yes □N		12.
Trip Blank Present?	□Yes □N		13.
Trip Blank Custody Seals Present?	□Yes □N		2
Pace Trip Blank Lot # (if purchased):			
CLIENT NOTIFICATION/RESOLUTION			Field Data Required? Yes No
Person Contacted:			Date/Time:
Comments/Sample Discrepancy:			vate/ Inne.
Project Manager SCURF Review:	NMG)	Date:
Project Manager SRF Review: Note: Whenever there is a discrepancy affecting North Carolin			Date: 0 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0



CHAIN-OF-CUST Y / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Required Client Information: All analyses to be performed under Golder-Pace MSA dated 12/19/2008 Company: Requested Due Date/TAT: ITEM# 12 ⇉ 6 804-551-0129 Required Client Information (A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE 2108 W Laburnum Ave, Ste 200 Mormand@golder.com Golder Associates Richmond, VA 23227 11-160610-SAMPLE ID ADDITIONAL COMMENTS Fax: 804-358-2900 24 HOUR 1138 S S Required Project Information: Copy To: Martha_Smith@golder.com Report To: Mormand@golder.com roject Number: roject Name: Purchase Order No. Ron_Difrancesco@golder.com MATRIX CODE (see valid codes to left) RELINQUISHED BY I AFFILIATION 1520-347.220 Bremo Monthly Compliance SAMPLE TYPE (G=GRAB C=COMP) DATE COMPOSITE SAMPLER NAME AND SIGNATURE 1 TIME COLLECTED PRINT Name of SAMPLER: SIGNATURE of SAMPLER: 610/16 DATE COMPOSITE END/GRAB 6110116 11:38 TIME 10/16 DATE SAMPLE TEMP AT COLLECTION Reference: Pace Project Company Name: Golder Associates Invoice Information: C: 01 ace Quote 40 # OF CONTAINERS TIME Unpreserved H₂SO₄ Hawel man Meagan Ormand HNO₃ Preservatives gaiapdataentry_invoices@golder.com HCI NaOH Na₂S₂O₃ ACCEPTED BY LAFFILIATION Methanol Other Y/ N. Analysis Test 200.7 - Al, Ba, Be, B, Co DATE Signed (MM/DD/YY): unuu Requested Analysis Filtered (Y/N) 200.7 - Fe, Mo, V ASTM4282 - Free Cyanid NPDES REGULATORY AGENCY 2410/16 Site Location TSU The Mon STATE: DATE 0.050 TIME RCRA GROUND WATER X 0 Temp in °C z Residual Chlorine (Y/N) Received on Ice (Y/N) Pace Project No./ Lab I.D. SAMPLE CONDITIONS of DRINKING WATER Custody Sealed Cooler (Y/N) Samples Intact (Y/N) ge 11 of 17 000171



Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

ANALYTICAL RESULTS

Prepared by:

Prepared for:

Eurofins Lancaster Laboratories Environmental 2425 New Holland Pike Lancaster, PA 17601 Pace Analytical Services Suite 100 9800 Kincey Ave Huntersville NC 28078

Report Date: June 13, 2016

Project: 92300999

Submittal Date: 06/11/2016 Group Number: 1670967 PO Number: 15617 NMG State of Sample Origin: VA

<u>Client Sample Description</u> 92300999001 T1-160610-1138-S3 Water Lancaster Labs (LL) # 8421499

Attn: Nicole Gasiorowski

Bornie Stadelmann

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/.

Electronic Copy To Pace Analytical Services

Respectfully Submitted,

Bonnie Stadelmann Senior Project Manager

(312) 590-3133



Lancaster Laboratories Environmental

Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: 92300999001 T1-160610-1138-S3 Water

Bremo

LL Sample # WW 8421499 LL Group # 1670967 Account # 10945

Project Name: 92300999

Collected: 06/10/2016 11:38

Submitted: 06/11/2016 10:25

Reported: 06/13/2016 13:49

Pace Analytical Services

Suite 100

9800 Kincey Ave

Huntersville NC 28078

99001

CAT Limit of Dilution No. Analysis Name CAS Number Result Quantitation Factor

Wet Chemistry OIA-1677-09 mg/l mg/l

12941 Free Cyanide n.a. < 10.0 10.0

Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

 CAT
 Analysis Name
 Method
 Trial#
 Batch#
 Analysis
 Analysis
 Analyst
 Dilution

 No.
 12941
 Free Cyanide
 OIA-1677-09
 1
 16164941101A
 06/12/2016
 14:25
 Joseph E McKenzie
 1



Lancaster Laboratories Environmental

Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Quality Control Summary

Client Name: Pace Analytical Services Group Number: 1670967

Reported: 06/13/2016 13:49

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Method Blank

 Analysis Name
 Result
 LOQ

 mg/l
 mg/l

 Batch number: 16164941101A
 Sample number(s): 8421499

 Free Cyanide
 < 10.0</td>
 10.0

LCS/LCSD

Analysis Name	LCS Spike Added mg/l	LCS Conc mg/l	LCSD Spike Added mg/l	LCSD Conc mg/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 16164941101A	Sample number		499						
Free Cyanide	0.0400	0.0420			105		86-132		

MS/MSD

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc mg/l	MS Spike Added mg/l	MS Conc mg/l	MSD Spike Added mg/l	MSD Conc mg/l	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: 16164941101A Free Cyanide	Sample numb < 0.0060	er(s): 8421 0.0200	499 UNSP	K: P418864 0.0200	0.0221	111	110	86-132	0	3

P##### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

^{*-} Outside of specification

⁽¹⁾ The result for one or both determinations was less than five times the LOQ.

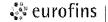
⁽²⁾ The unspiked result was more than four times the spike added.

Chain of Custody	mand furnished by interpresentation of MEES of New York			alladan sijerting spip)	o paramentarque aphraétakka	/-		10945 -16709 8421	67	Pá	zure.
chain of oustous							5-	8421	499	F	ace Analytical "
Workorder: 92300999	Workorder Name:	Bremo Mont	hly Proces	s			Res	sults Requested		:016	
Report / Involce To	Subco	ntract To					1	Requ	ested Analysis		
Nicole Gaslorowski Pace Analytical Charlotte 9800 Kincey Ave. Suite 100 Huntersville, NC 28078 Phone (704)875-9092 Email: nicole.gasiorowski@pacele	24.342	ldministration Lancastar New Italia in 1899	haborate	eres 6	5G17		1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	4e Cyanido 1.A - 11077 U13116			
Itom. Sample ID	Collect Date/Time	Lab ID	Matrix	MeCi			#	E. C.			LAB USE ONLY
1 T1-160610-1138-S3	6/10/2016 11:38	92300999001	Water				X				
2						_					
3											
4				<u> </u>	4-4-	- -					
5			L	<u></u>				لبلبل لباب	C	ommonts	
Transfers Released By	Date/T	me Receive				Date/T	lme	8001-2		nimenca	
1 (Rachel Bu	MUISA 610	161715	FL 98	MA			771	1025			
Cooler Temperature on Rece	int O'O °C	Custody Seal	752510 Y or N			elved c	n Ice	(Y)or N	Si	amples Intac	t (V) or N

FMT-ALL-C-002rev.00 24March2009

Friday, June 10, 2016 3:20:46 PM

Page 1 of 1



Lancaster Laboratories Environmental

Sample Administration Receipt Documentation Log

Doc Log ID:

150002

Group Number(s): /670 %7

Client: Pace Analytical

Delivery and Receipt Information

Delivery Method:

Fed Ex

Arrival Timestamp:

06/11/2016 10:25

Number of Packages:

1

Number of Projects:

1

Arrival Condition Summary

Shipping Container Sealed:

Yes

Sample IDs on COC match Containers:

Yes

Custody Seal Present:

No

Yes

Samples Chilled:

Yes

Sample Date/Times match COC: VOA Vial Headspace ≥ 6mm:

N/A

Paperwork Enclosed:

Yes

Total Trip Blank Qty:

0

Samples Intact:

Yes

Air Quality Samples Present:

No

Missing Samples:

No

Extra Samples:

No

No

Unpacked by Krista Abel (3058) at 11:03 on 06/11/2016

Discrepancy in Container Qty on COC:

Samples Chilled Details

Thermometer Types:

DT = Digital (Temp. Bottle)

IR = Infrared (Surface Temp)

All Temperatures in °C.

Cooler # Thermometer ID

Corrected Temp

Therm, Type

ice Type

Ice Present?

Ice Container

Elevated Temp?

32170023

0.0

IR

Wet

Loose

Ν



Lancaster Laboratories Environmental

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
С	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
μg	microgram(s)	mg	milligram(s)
mĹ	milliliter(s)	Ĺ	liter(s)
m3	cubic meter(s)	μL	microliter(s)
		pg/L	picogram/liter

< less than

> greater than

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Laboratory Data Qualifiers:

B - Analyte detected in the blank

C - Result confirmed by reanalysis

E - Concentration exceeds the calibration range

J (or G, I, X) - estimated value ≥ the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)

P - Concentration difference between the primary and confirmation column >40%. The lower result is reported.

U - Analyte was not detected at the value indicated

V - Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference...

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

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Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

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